

10 x 8 Diesel Pump

Vacuum Assisted

Product Description

Diesel engine driven centrifugal pump equipped with vacuum-assisted priming system.

Trailer mounted for easy transportation having the following additional features: Run dry mechanical seal, Auto-start control, monitoring of fuel level, engine load, run time, oil and coolant temperature, and telemetry system.

Technical Data

Operating Parameters

Min. / Max. Flow	1100 gpm / 5400 gpm
Min. / Max. Shutoff Head	160 ft (69psi) / 361 ft (156psi)
Maximum Casing Pressure	175 psi
Maximum Temperature	200°F
Maximum Solid Size	3.38 inch
Min. / Max. Pump Speed	1200 rpm / 1800 rpm

Pump & Accessory Specifications

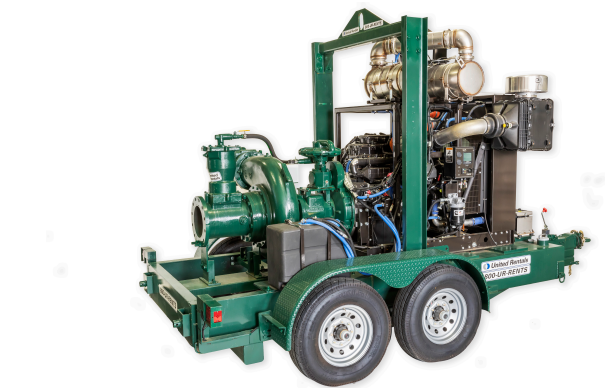
Suction / Discharge Size	10 inch / 8 inch
Impeller Diameter	17.5 inch
Vacuum System - Type / Capacity	Diaphragm / 50 CFM

Casing	Cast Iron
Impeller	CA6NM Stainless Steel
Wear Ring	Cast Iron
Shaft	4140 Cr-Mo Alloy Steel
Mechanical Seal Faces	Tungsten/Silicon-Carbide
Mechanical Seal Lubrication	ISO Viscosity Grade 32 or Lower <i>(synthetic recommended)</i>
O-rings & Gaskets	Buna-N & Viton
Check Valve Body	Ductile Iron
Check Valve Flapper	Buna-N
Check Valve Type	Swing type

Driver Properties

Type A

Driver Type	Diesel Engine
Driver Make	John Deere
Model	6090HF485
Max. Continuous Rating	325 hp
Total Displacement	9 liters
Aspiration	Turbocharged and air-to-air aftercooled
Number of Cylinders	6
Safety Shutdowns	Low Oil Pressure, High Temp.
Fuel Consumption	13.9 gal/hr @ 1800 rpm
Run Time	12.9 hours @ 1800 rpm
Fuel Type	No. 2 Diesel: NO BIODIESEL
Fuel Capacity	180 U.S. gallons



Notes

- Performance data based on water at 60°F
- Run time indicated is for reference and could vary based on speed and engine loads
- Maximum temperature is the equipment material limitation. Based on the application, process, product and NPSH requirements, the maximum allowable temperature could be lower
- This pump is also available with a 20 CFM venturi-compressor priming system
- There are other trailer variants, so double check dimensions on the actual unit being rented.

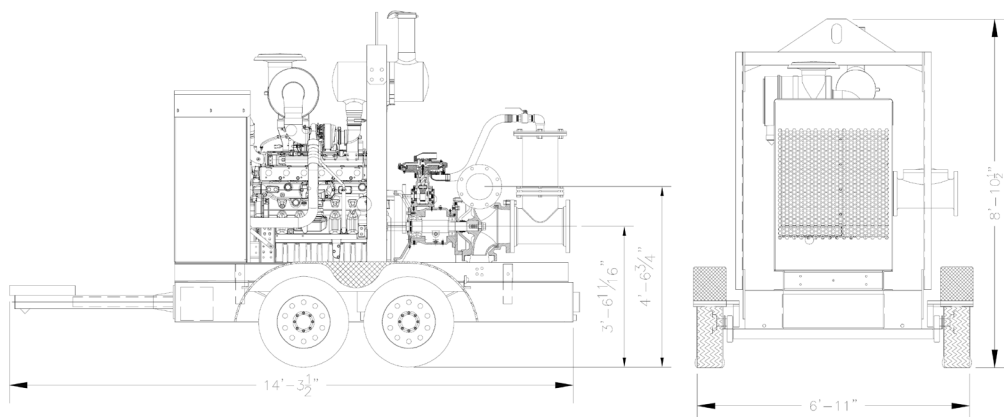
Type B

Diesel Engine
Cummins
QSL9
320 hp
8.9 liters
Turbocharged charge-air cooled
6
Low Oil Pressure, High Temp.
14.9 gal/hr @ 1800 rpm
20.2 hours @ 1800 rpm
No. 2 Diesel: NO BIODIESEL
300 U.S. gallons

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Dimensional Drawing



Dimensional Details

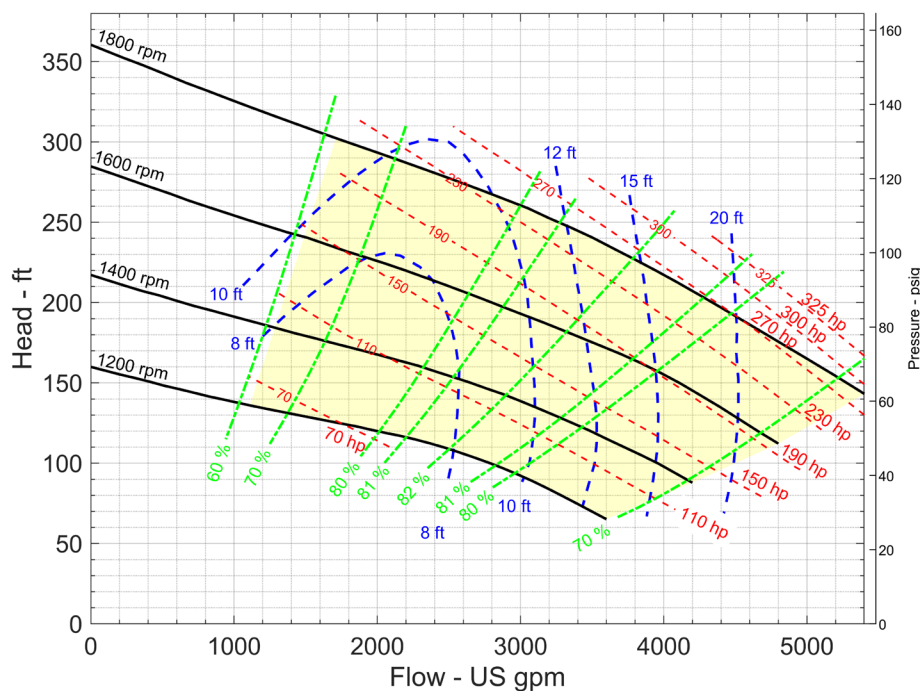
Type A

Total Weight wo/Fuel	7642 lbs
Total Weight w/Fuel	8920 lbs
Overall Height	107 inch
Overall Width	83 inch
Overall Length	172 inch

Type B

Total Weight wo/Fuel	9564 lbs
Total Weight w/Fuel	11694 lbs
Overall Height	115 inch
Overall Width	91 inch
Overall Length	202 inch

Performance Curve



Pump Make	Cornell
Pump Model	8NHTA
Operating Speed	Variable
Min. Speed	1200 rpm
Max. Speed	1800 rpm
Impeller Rated Dia.	17.5 inch
Impeller Type	Enclosed
No. of Impeller Vanes	2
Solid Dia.	3.38 inch
Specific Speed	1892 US Units
Suction Size	10 inch
Discharge Size	8 inch